

Claim 4. (Amended) A [liner for a] shaped charge according to claim 1 wherein

the percentage of heavy metal in the mixture is within a range of approximately 99.0% to 99.98% by weight.

Claim 5. (Amended) A [liner for a] shaped charge according to claim 1 wherein

the binder metal is chosen from the group consisting of copper, lead, zinc, tin, and bismuth.

Claim 6. (Amended) A [liner for a] shaped charge according to claim 1 wherein

the binder metal consists [essentially] primarily of lead.

Claim 7. (Amended) A [liner for a] shaped charge according to claim 1 wherein

the mixture further comprises approximately 0.02% to 0 1.0% lubricant by weight.

Claim 8. (Amended) A [liner for a] shaped charge according to claim 7 wherein

the lubricant comprises powdered graphite.

Claim 9. (Amended) A [liner for a] shaped charge according to claim 7 wherein

the lubricant comprises oil.

Claim 10. (Amended) A [liner for a] shaped charge[d] according to claim 1 wherein

the percentage of heavy metal in the mixture is approximately 93.0%.[.]

Claim 11. (Amended) A [liner for a] shaped charge comprising:
a casing;
an explosive material disposed within the casing having a cavity formed therein; and
a liner disposed within the cavity formed of heavy metal powder, coated with a binder metal, formed into a rigid body.

Claim 12. (Amended) A [liner for a] shaped charge according to claim 11 wherein

the heavy metal powder is chosen from the group consisting of tungsten, tantalum, [hafnium,] platinum, [silver,] gold, [copper,] or any mixture thereof.

Claim 13. (Amended) A [liner for a] shaped charge according to claim 11 wherein the heavy metal comprises tungsten.

Claim 14. (Amended) A [liner for a] shaped charge according to claim 11 wherein the binder metal is chosen from the group consisting of copper, tin, zinc, lead, bismuth or any mixture thereof.

Claim 15. (Amended) A [liner for a] shaped charge according to claim 11 wherein the percentage of heavy metal in the heavy metal powder is within a range of approximately [90.0%] 91.0% to 99.98% by weight.

Claim 16. (Amended) A [liner for a] shaped charge according to claim 11 wherein the percentage of heavy metal in the heavy metal liner is approximately 93.0%.[.]

Claim 17. (Amended) A [liner for a] shaped charge according to claim 11 wherein the percentage of heavy metal is within a range of approximately 99.0% to 99.98% by weight.

Claim 18. (Amended) A [liner for a] shaped charge according to claim 11 wherein the heavy metal powder, coated with binder metal, is mixed with approximately 0.02% - 1.0% lubricant by weight.

Claim 19. (Amended) A [liner for a] shaped charge according to claim 18 wherein the lubricant comprises powdered graphite.

Claim 20. (Amended) A [liner for a] shaped charge according to claim 18 wherein the lubricant comprises oil.

Claim 21. (Amended) A [liner for a] shaped charge comprising:
a casing;
an explosive material disposed within the casing having a cavity formed therein; and
a liner disposed within the cavity formed of a mixture of powdered heavy metal,
powdered metal binder, and a heavy metal powder coated with a binder-metal formed into a
rigid body.

Claim 22. (Amended) A [liner for a] shaped charge according to claim 21
wherein
the rigid body is substantially conical.

Claim 23. Canceled.

Claim 24. Canceled.

Claim 25. (Amended) A [liner for a] shaped charge according to claim 21
wherein
the percentage of heavy metal in the mixture is within a range of approximately
90.0% to 99.98% by weight.

Claim 26. (Amended) A [liner for a] shaped charge according to claim 21
wherein
the percentage of heavy metal in the mixture is approximately 93.0%.

Claim 27. (Amended) A [liner for a] shaped charge according to claim 21
wherein
the heavy metal powder is chosen from the group consisting of tungsten, tantalum,
[hafnium, silver,] gold, platinum, [copper,] or any mixture thereof.

Claim 28. (Amended) A [liner for a] shaped charge according to claim 21
wherein
the heavy metal consists [essentially] primarily of tungsten.

Claim 29. (Amended) A [liner for a] shaped charge according to claim 21
wherein
the percentage of heavy metal in the mixture is within a range of approximately
99.0% to 99.98% by weight.